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1954, pp 60-66:

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Sci Mus Sub 56/3979
Co-op Tr Sch. No 41
L2.16s (7c. 04.)

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May 55 CTS

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NLL Ref: 5828.4 1964 (10,496) (loan copy)

CTS T-64-10910

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Ap8 64

Calculation of the Heats of Formation of Inorganic
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SLA R-2849

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in Gaseous Phase, IV. High and Low-Temperature
Oxidation of Propane, by N. Ya. Chernyak, et al
25 pp.

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Temperature Effect at the Cathode During
Electro-Precipitation of Powderous Cadmium,
by D. N. Gritsan, and M. Bulgakova, 12 pp.
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pp 258-264.
CIA/FDD X-5668

A.M.

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TT-64-14400

Protsenko, P. I. and Popovskaya, N. P.
ELECTRICAL CONDUCTIVITY OF THE BINARY
SYSTEMS: CADMIUM NITRATE-POTASSIUM NITRATE,
CADMIUM NITRATE-RUBIDIUM NITRATE AND
CADMIUM NITRATE-SILVER NITRATE IN FUSIONS
[Elektroprovodnost' Binarnykh Sistem: Nitrat Kadmiya-
Nitrat Kaliya, Nitrat Kadmiya-Nitrat Rubidiya i Nitrat
Kadmiya-Nitrat Serebra v Rasplavakh]. [1963] [15p]
(figs omitted) 8refs
Order from OTS, SLA, or ETC \$1.60 TT-64-14400

Trans. of Zhurnal Fizicheskoi Khimii (USSR) 1954,
v. 28 [no. 2] p. 299-304.
Another trans. is available from SLA as RT-2571, 17p.

DESCRIPTORS: *Fused materials, Salts, *Cadmium
compounds, *Potassium compounds, *Rubidium com-
pounds, *Silver compounds, *Nitrates, Electrical
conductivity.

(Chemistry--Physical, TT, v. 11, no. 10)

(over)

I. Protsenko, P. I.
II. Popovskaya, N. P.
III. RT-2571

Office of Technical Services

Solution and Adsorption of Hydrogen by Dispersed
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Tverdovskiy, 13 pp.

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No 2, pp 317-327.

ATS-RJ-1577
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Sci - Chem
OTS I, 4
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Impact of Anions on the Temperature Effect
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A. M. Bulgakova, 13 pp.
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AEC Tr 3229

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1. Cold-Flame Oxidation of Propane, by L. A. Repe,
V. Ya Shtern, 15 pp.

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Feb 56

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S-5130

(NY-2539)

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No 3, ~~1953~~ 1954, pp 422-432.

JPRS L-791-N

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THE EFFECT OF TEMPERATURE ON THE LOWER
CONCENTRATION LIMIT OF FLAME PROPAGATION, BY
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NLL M. 3869

SCI - PHYS

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On the Relationship Between the Corrosion Rate of
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A. Ya. Vayvade.

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Navy Tr 1531/NRL-633

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The Oxidation of Iron and Steel at High Temperatures,
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BISI 3789

Scml - Engr
Sep 64

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Thermodynamic Studies at Low Temperatures, II.
Measurements of the Heat Capacity of Solid Bodies
and Liquids Between 12 and 300°K, by I. G.
Strelkov, E. S. Itskevitch, V. N. Kostukov, G. G.
Minskaya, B. N. Samoilov, 21 pp.

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AEC Tr 3266

Sci - Chem

Sep 58

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61-19802

Kalish, T. V. and Frumkin, A. N.
THE EFFECT OF THE ADSORPTION OF ANIONS ON
THE REDUCTION OF THE $S_2O_8^{2-}$ ION AT A DROP-
PING CATHODE (Vliyaniye Adsorptsii Anionov na
Vosstanovleniye Iona $S_2O_8^{2-}$ na Kapel'nom Katode).
Apr 61 [24]p. 31 refs. RTS 1747.
Order from OTS or SLA \$2.60

61-19802

Trans. of Zhurnal Fizicheskoy Khimii (USSR) 1954,
v. 28, no. 3, p. 473-489.

DESCRIPTORS: Ions, Reduction, *Electrolysis,
*Peroxydisulfates, Adsorption.

The electroreduction of $S_2O_8^{2-}$ ions at a mercury elec-
trode is retarded by adsorbing anions. The rate of this
reaction at a positively charged surface depending on
the nature of the indifferent electrolyte, follows the
order $Na_2SO_4 > KCl > KBr > KI$. In passing from
0.01 N Na_2SO_4 to 0.01 N KI , for this reaction, provided
the respective current density is 0.8 of the limiting re-
(Chemistry-Physical, TT, v. 6, no. 4) (over)

I. Kalish, T. V.
II. Frumkin, A. N.
III. RTS-1747
IV. Department of Scientific
and Industrial Research
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177693

Office of Technical Services

Retarding Effect of Gaseous Reaction Products
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DSIR LLU M.1549

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52A 60-23017

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3. Heat Capacity of Potassium Chloride Between 12
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G. G. Mirskaya, 11 pp.

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Sci Mus Lib Tr 57/3675

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CLA R-2057

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RT4602

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AEI E 489

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Scientific - Physics

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SLA 60-16834

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T.I.L. T.4551

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Sci - Physics, ~~Chemistry~~

Jun 1956

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SLA 59-15232

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Vol 2, No 7

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Peroxide and Its p,p'-dinitro- and p,p'-Dimethoxy-
Derivatives in Benzene and Nitrobenzene, by R. I.
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Sci - Chem

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Electrochemical Behavior of Iron in Hot Concentrated
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RUSSIAN, per, Zhur Fiz Khim, Vol XXVIII, No 5, 1954,
pp 824-836. 944, 475

NRL Tr No 848

Sci - Min/Met
Jun 61

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The Photoconductivity of Dyed Organic Film
When Exposed to Visible Light, by A. T.
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NRC C-3121

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NRC 77 + 815

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Mechanism of Gas Phase Oxidation of Hydrocarbons:
7. Effect of Homogeneous Additions (NO_2, Br_2)
on the Oxidation of Propane, by A. P. Revzin,
G. B. ~~Savitsky~~ Sergeyev, V. Ya. Shtern,

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Scientific - Physics, Chemistry

Jul 55 CTB

S-5121

(BT-2541)

Absorption Dynamics of Two Components of a Mixture.
by Ya. M. Bikson, 13 pp.

RUSSIAN, per, Zhur Fiz Khim, Vol XXVIII, No 6,
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JPRS L-777-H

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Sci - Chem
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The Problem of the Solubility of Boron and Carbon in
Boron Carbide $B_{12}C_3(B_4C)$, by G. S. Zhdanov, G. A.
Meerson, N. N. Zhuraveyev, G. V. Samsonov.

RUSSIAN, no per, Zhur Fiz. Khim, Vol XXVIII, 1954,
pp 1076-1082. CIA 9019478

SLA R-1117
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An Electrochemical Investigation of the System
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Kinetics and Mechanism of Hydrocarbon
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Natl Res Lib, Ottawa, Canada
TT - 586

Sci - Chemistry

Aug 1956

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OT - 66-14833

Neiman, M.B.
MÉTHODE CINÉTIQUE D'APPLICATION DES ATOMES
MARQUÉS POUR L'ÉTUDE DU MÉCANISME DES
PROCESSUS CHIMIQUES ET BIOCHIMIQUES COM-
PLEXES. I. THÉORIE DE LA MÉTHODE (Kinetics-
Kii Metod Primeneniya Mechenykh Atomov dlya Issle-
dovaniya Mekhanizma Slozhnykh Khimicheskikh i Bio-
khimicheskikh Protsessov. I. Teoriya Metoda) (A Ki-
netic Tracer Method for Studying the Mechanisms of
Complex Chemical and Biochemical Processes.
I. Theory of the Method) 24p. (Foreign text included)
11 refs. CNRS-VIII bis 560.
Order from OTS, ETC or CNRS \$0.90 TT-62-28283

Trans. in French of Zhurnal Fizicheskoi, Khimii
(USSR) 1954, v. 28, no. 7, p. 1235-1242.
Another trans. is available in English from LC or SLA
at \$2.40, pb \$3.30 as TT-61-10529 [1960] 14p.

DESCRIPTORS: Chemical reactions, Kinetic theory,
Radioactive isotopes, *Labeled substances, *Bio-
chemistry, Injection, Animals, Tracer studies,
(Biological Sciences--Biochemistry, TT, v. 11, no. 6)

TT-62-28283

I. Neiman, M.B.
II. CNRS-VIII bis 560
III. Centre National de la Recher-
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Office of Technical Services
European Translations Centre

S-84/60

(NY-3543)

The Effect of Molecular Structure on the Velocity of the Ionic and Atomic Reactions of Isotope Exchange. I. The Effect of Lengthening the Carbon Chain of the Alkyl Radical on the Rate of Isotope Exchange of an Alkyl Halide With Halide Ions, by M. B. Neyman, Yu. M. Shapovalov, V. B. Miller, 28 pp

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JPRS 2652

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Sci Chem
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Kinetics of Dehydrogenation of N-Butane, by G. D.
Lyubarekii, 15 pp.

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SIA Tr R-1802
OTS 62-10436

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SLA R-1788

SLA 62-16634

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RUSSIAN, per, Zhur Fizicheskoy Khimii,

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Dept of Navy Tr 4618/ONI Tr 2149

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Kinetics and Mechanism of Hydrocarbon Decomposition.
IV. Kinetics and Mechanism of the Decomposition of
Isobutane in the Presence of Isobutylene and Propylene
as Inhibitors, by A. D. Stepukhovich, G. P. ~~XXXX~~
Vorob'eva,

RUSSIAN, per, Zhur Fiz Khim, Vol XXVIII, No 8,
1954, pp 1361-1370.

Natl Res Lib, Ottawa, Canada
TT - 587

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Sci - Chemistry

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Vapour-Phase Partial Oxidation of Benzene with Molecular
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UKSM
(Ref. No 2954)

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Vestnik Khim. i Mekh. 1958, No. 8, pp 1395-1398.

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USAM Ref. No. 2953
SLI 58-8886

Sci

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DSIR LRU RTS 1179
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Kinetic Method of Using Labelled Atoms for the Investigation of the Mechanism of Complex Chemical and Biochemical Processes. 2. The Behaviour of Acetaldehyde in Cold Flame Oxidation of Butane, by M. Neiman, G. Feklisov.

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UKEM Ref No 2913

Sci - Nuclear Physics
Jan 58

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Pshezhetskii, S. Ya., Lyubarskii, G. D. and others.
RELATION OF THE KINETICS OF CATALYTIC
DEHYDROGENATION OF HYDROCARBONS TO
THEIR STRUCTURE. III. COMPARISON OF KINETIC
DATA FOR n-BUTANE AND n-BUTENE: PROBABLE
DEHYDROGENATION MECHANISM. [1961] 7p.
Order from ATS \$8.75 ATS-97N54R

Trans. of Zhur[nal] Fiz[icheskoi] Khim[ii] (USSR) 1954.
v. 28, no. 8, p. 1458-1464.

DESCRIPTORS: *Dehydrogenation, Hydrocarbons,
*Butanes, *Butenes, *Reaction kinetics.

(Chemistry--Physical, TT, v. 6, no. 11)

61-25450

- I. Pshezhetskii, S. Ya.
- II. Lyubarskii, G. D.
- III. ATS-97N54R
- IV. Title: Comparison...
- V. Associated Technical
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Office of Technical Services

Precision of the Measurement of the Viscosity of
Molten Glasses, by V. T. Slavyanskiy, E. N. Krestnikova,
12 pp.

RUSSIAN, per, Zhur Fiz Khim, Vol XXVIII, No 8, 1954,
pp 1497-1506.

LC or SLA 59-10066

Sci - Chemistry
Feb 59

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3.30 photo

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Thermodynamic Constants of Water Insoluble
Halides, Sulfides, Oxides and Hydrates of Metals,
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AEC Tr-4116

Sci - Phys, Chem
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On the Mechanism of Incomplete Oxidation of
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Sci Tr Center
RT-3940

Sci - Chemistry

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Kinetics and Chemistry of the Reaction of Ether With
Nitrogen Dioxide in the Gas Phase, by E. A. Blyum-
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NIH

Sci - Chem

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Analysis of Multicomponent Heterogeneous Systems
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SLA 59-10737

Sci

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Vol 2, No 3

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Transport and Distribution of Components of Metallic
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RUSSIAN, per, Zhur Fiz Khim, Vol XXVIII, No 9,
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SIA 59-15035

Sci - Phys
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Vol 2, No 2

97994

Zhuk, N.P.
CONSTANTES THERMODYNAMIQUES DES SULFATES,
CARBONATES, CHROMATES, BROMATES, IODATES,
OXALATES ET D'AUTRES SELS METALLIQUES DIF-
FICILEMENT SOLUBLES DANS L'EAU (Thermodyna-
mic Constants of Sulfates, Carbonates, Chromates,
Bromates, Iodates, Oxalates, and Other Salts Slightly
Soluble in Water). 4p. 4refs. CNRS-VIII bis 713.
Order from OTS, ETC or CNRS \$0.75 TT-62-26370

Trans. in French of Zhurnal Fizicheskoi Khimii (USSR)
1954, v.28, no.9, p.1690-1697.

DESCRIPTORS: *Thermodynamics, Data, Salts,
Solubility, *Sulfates, *Carbonates, *Chromates,
*Iodates, *Bromates, *Oxalates.

(Chemistry--Physical, TT, v. 11, no. 6)

847 TT-62-26370

I. Zhuk, N.P.
II. CNRS-VIII bis 713
III. Centre National de la Recher-
che Scientifique, Paris

Office of Technical Services
European Translations Centre

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pp 1701-1706.

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Thermodynamic Investigation of the Dissocia-
tion of Sodium Fluosilicate and Its Solution
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V. K. Dyatlova, 8 pp.

RUSSIAN, per, Zhur. Fiz. Khim., Vol XXVIII,
No 10, 1954, pp 1713-1719.

ATS-39442R

ATS/RJ-2557

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Sci.

Vol IV, No 7

Apr 62

Kinetic Method for the Employment of Marked Atoms^d
for the Investigation of the Mechanism of Complete
Chemical and Biochemical Processes. 3., by M. B.
Neyman, Gh. I. Feklisov, 14 pp.

RUSSIAN, per, Zhur Fiz Khim, Vol XXVIII, No 10,
1954, pp 1737-1744.

Sci Mus Lib Tr 57/0492

Sci - Physics
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Effect of the Properties of Gelatin on the
Optical Sensitization of ~~Kino~~ Photographic
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5 pp.

RUSSIAN, no per, Zhur Fiz Khim, ~~Vatsh~~ Vol XXVIII,
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Sci mus Lib 56/2 444
CIA/FDD X-2209

Sci - Physics
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6-5128

(NY-2540)

Description Dynamics With Porous Adsorbents, by
M. V. Tovbin, A. D. Grinberg, 17 pp.

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1954, pp 1755-1764.

JPRS L-792-H

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Sci - Chem
Jun 59

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Effect of Certain Additions of the Rate of
Reduction of Oxides of Nickel, Mercury, and
Cobalt, by A. F. Sgibnev, 6 pp.

RUSSIAN, no par, Zhur Fiz Khim, Vol XXVIII,
1954, pp 1770-1773.

AEC Tr 2523

Sci - Minerals/Metals

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Dzhigit, O. M., Kiselev, A. V., and Nelmark, I. E.
A STANDARD SERIES OF SILICA GELS AND THEIR
STRUCTURE. [1961] 9p.
Order from ATS \$13.35

ATS-16NS4R

Trans. of Zhur[nal] Fiz[icheskoi] Khim[ii] (USSR) 1954,
v. 28, no. 10, p. 1804-1811.

DESCRIPTORS: *Gels, *Silicon compounds, Molecular
structure.

(Chemistry--Physical, TT, v. 6, no. 8)

61-25325

- I. Dzhigit, O. M.
- II. Kiselev, A. V.
- III. Nelmark, I. E.
- IV. ATS-16NS4R
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ATS/RJ-2034

255225

Office of Technical Services

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(NY-2749).

Experimental Confirmation of the Theory of Crystal Growth and the Relation Between the Equilibrium Forms and the Forms of Growth, by V. I. Danilov, V. I. Malkin, 13 pp.

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JPRS-L-946-N

Sci - Chem, Crystallization
Sep 59

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